

**Amendments to the Claims:**

A clean version of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121(c)(3). This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Canceled)
2. (Previously presented) The sensor of claim 3, wherein the first and the second electrodes are interdigitated electrodes.
3. (Currently amended) A sensor comprising a substrate and a plurality of individually addressable resonators, each of the resonators comprising:  
an acoustic reflector on the substrate, the acoustic reflector comprising a plurality of layers having alternating high and low acoustic impedances, an uppermost layer having the low impedance; first and second resonator electrodes;  
a piezoelectric layer separated from the substrate by the acoustic reflector; ~~and~~  
first and second resonator electrodes on an upper surface of the piezoelectric layer; and  
a sensing layer ~~at least partly~~ covering a portion of an upper surface of each of the first and second resonator electrodes;  
~~wherein the first and second resonator electrodes are on the same side of the piezoelectric layer.~~
4. (Previously presented) The sensor of claim 3, wherein the sensing layers the plurality of resonators comprise different materials.
5. (New) The sensor of claim 3, wherein the plurality of layers of the acoustic reflector is an odd number of layers.

6. (New) The sensor of claim 3, wherein the portion of the first and second resonator electrodes covered by the sensing layer comprises a portion of an upper surface of each of the first and second resonator electrodes.

7. (New) A sensor comprising:

a substrate;

an acoustic reflector on the substrate, the acoustic reflector comprising a plurality of layers having alternating high and low acoustic impedances, outermost layers of the plurality of layers having the low impedance;

a piezoelectric layer on the acoustic reflector;

first and second resonator electrodes on a same surface of the piezoelectric layer; and

a sensing layer contacting each of the first and second resonator electrodes,

wherein the sensing layer covers only a portion of each of the first and second resonator electrodes.